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USER'S MANUAL

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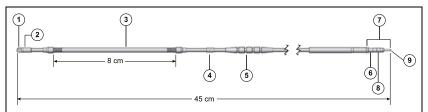
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[1] Anchoring Hole, [2] Distal Sensing Electrode, [3] Defibrillation Coil, [4] Proximal Sensing Electrode, [5] Integrated Suture Sleeve, [6] Terminal electrode connection for proximal sensing electrode, [7] SQ-1 S-ICD connector (non-standard), [8] Terminal electrode connection for defibrillation coil, [9] Terminal Pin (electrode connection for distal sensing electrode)

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This product may be protected by one or more patents. Patent information can be obtained at http://www.bostonscientific.com/patents. The following are trademarks of Boston Scientific Corporation or its affiliates: EMBLEM, IMAGEREADY.

INFORMATION FOR USE

Description

The EMBLEM[™] S-ICD subcutaneous electrode (the "subcutaneous electrode") is a component of the Boston Scientific S-ICD System, which is prescribed for patients when cardiac arrhythmia management is warranted. The S-ICD System detects cardiac activity and provides defibrillation therapy. The subcutaneous electrode is implanted with the distal portion positioned parallel to the left sternal border and the proximal end connected to an EMBLEM S-ICD System pulse generator via an SQ-1 S-ICD connector¹. The subcutaneous electrode is also compatible with the Cameron Health Model 1010 SQ-RX pulse generator.

The subcutaneous electrode includes one high voltage shock electrode coil for the purpose of providing defibrillation energy. The shock electrode is constructed using multifilars of metallic wire formed into a defibrillation coil 8 cm in length. Defibrillation is delivered between the coil on the subcutaneous electrode and the electrically conductive pulse generator case.

The subcutaneous electrode also includes proximal and distal sensing ring electrodes. These sense electrodes are constructed using metallic tubing mechanically affixed to the body of the subcutaneous electrode. Sensing occurs between the two electrically conductive rings on the subcutaneous electrode or between either of the rings on the subcutaneous electrode and the electrically conductive pulse generator case.

Related Information

For additional information about other components of the S-ICD System, refer to the following:

- EMBLEM S-ICD Pulse Generator User's Manual
- EMBLEM S-ICD Subcutaneous Electrode Insertion Tool User's Manual
- EMBLEM S-ICD Programmer User's Manual

Refer to the ImageReady MR Conditional S-ICD System MRI Technical Guide (hereafter referred to as the MRI Technical Guide) for information about MRI scanning.

INTENDED AUDIENCE

This literature is intended for use by professionals trained or experienced in device implant and/or follow-up procedures.

MR Conditional System Information

A Boston Scientific/Cameron Health subcutaneous electrode can be used as part of the ImageReady S-ICD System when connected to a Boston Scientific MR Conditional S-ICD pulse generator. Patients with an MR Conditional S-ICD System may be eligible to undergo MRI scans if performed when all Conditions

1. SQ-1 is a non-standard connector unique to the S-ICD System.

of Use, as defined in the MRI Technical Guide, are met. Components required for MR Conditional status include specific models of Boston Scientific S-ICD pulse generators, electrodes, and accessories; the Programmer; and Programmer Software Application. For the model numbers of MR Conditional S-ICD pulse generator and components, as well as a complete description of the ImageReady S-ICD System, refer to the MRI Technical Guide.

Refer to the MRI Technical Guide for a comprehensive list of Warnings. Precautions, and Conditions of Use that are applicable to MRI scanning of patients implanted with an ImageReady S-ICD System.

Implant-related MRI Conditions of Use

The following subset of the MRI Conditions of Use pertains to implantation and is included as a guide to ensure implantation of a complete ImageReady S-ICD System. For a full list of Conditions of Use, and potential adverse events applicable when the Conditions of Use are met or not met, refer to the MRI Technical Guide. All items on the full list of Conditions of Use must be met in order for an MRI scan to be considered MR Conditional.

- Patient is implanted with an ImageReady S-ICD System
- No other active or abandoned implanted devices, components, or accessories present such as lead adaptors, extenders, leads, or pulse generators
- Patient is judged to be clinically capable of tolerating no Tachycardia protection for the entire duration in which the pulse generator is in MRI Protection Mode
- At least six (6) weeks have elapsed since implantation and/or any electrode revision or surgical modification of the ImageReady S-ICD
- No evidence of a fractured electrode or compromised pulse generatorelectrode system integrity

NOTE: Other implanted devices or patient conditions may cause a patient to be ineligible for an MRI scan, independent of the status of the patient's ImageReady S-ICD System.

Indications for Use

The S-ICD System is intended to provide defibrillation therapy for the treatment of life-threatening ventricular tachyarrhydboics is a still symptomatic bradycardia, incessant ventricular tachycardia, or spontaneous, frequently recurring ventricular tachycardia that is reliably terminated with antitachycardia pacing.

Contraindications

Unipolar pacing and impedance-based features are contraindicated for use with the S-ICD System.

WARNINGS

NOTE: Before using the S-ICD System, read and follow all warnings and precautions provided in the EMBLEM S-ICD Pulse Generator User's Manual.

General

- Labeling knowledge. Read this manual thoroughly before using the S-ICD System to avoid damage to the pulse generator and/or subcutaneous electrode. Such damage can result in patient injury or death.
- For single patient use only. Do not reuse, reprocess, or resterilize. Reuse, reprocessing, or resterilization may compromise the structural integrity of the device and/or lead to device failure which, in turn, may result in patient injury, illness, or death. Reuse, reprocessing, or resterilization may also create a risk of contamination of the device and/or cause patient infection or cross-infection, including, but not limited to, the transmission of infectious disease(s) from one patient to another. Contamination of the device may lead to injury, illness, or death of the patient.
- Component compatibility. All Boston Scientific S-ICD implantable components are designed for use with the Boston Scientific or Cameron Health S-ICD System only. Connection of any S-ICD System components to a non-compatible component will result in failure to deliver life-saving defibrillation therapy.
- Backup defibrillation protection. Always have external defibrillation equipment and medical personnel skilled in CPR available during implant and follow-up testing. If not terminated in a timely fashion, an induced ventricular tachyarrhythmia can result in the patient's death.

Handling

- Proper handling. Handle the components of the S-ICD System with care at all times and maintain proper sterile technique. Failure to do so may lead to injury, illness, or death of the patient.
- Do not damage components. Do not modify, cut, kink, crush, stretch, or otherwise damage any component of the S-ICD System. Impairment to the S-ICD System may result in an inappropriate shock or failure to deliver therapy to the patient.
- Handling the subcutaneous electrode. Use caution handling the subcutaneous electrode connector. Do not directly contact the connector with any surgical instruments such as forceps, hemostats, or clamps. This could damage the connector. A damaged connector may result in compromised sealing integrity, possibly leading to compromised sensing, loss of therapy, or inappropriate therapy.

Implantation

 System dislodgement. Use appropriate anchoring techniques as described in the implant procedure to prevent S-ICD System dislodgement and/or migration. Dislodgement and/or migration of the S-ICD System may result in an inappropriate shock or failure to deliver therapy to the patient. Do not implant in MRI site Zone III. Implant of the system cannot be
performed in an MRI site Zone III (and higher) as defined by the American
College of Radiology Guidance Document for Safe MR Practices². Some
of the accessories used with pulse generators and electrodes, including
the torque wrench and electrode implant tools, are not MR Conditional and
should not be brought into the MRI scanner room, the control room, or the
MRI site Zone III or IV areas.

Post-Implant

- Diathermy. Do not expose a patient with an implanted S-ICD System to diathermy. The interaction of diathermy therapy with an implanted S-ICD pulse generator or electrode can damage the pulse generator and cause patient injury.
- Magnetic Resonance Imaging (MRI) exposure. Unless all of the MRI
 Conditions of Use (as described in the MRI Technical Guide) are met, MRI
 scanning of the patient does not meet MR Conditional requirements for the
 implanted system, and significant harm to or death of the patient and/or
 damage to the implanted system may result.

Refer to the MRI Technical Guide for potential adverse events applicable when Conditions of Use are met or not met, as well as for a complete list of MRI-related Warnings and Precautions.

PRECAUTIONS

Clinical Considerations

- Pediatric use. The S-ICD System has not been evaluated for pediatric use.
- Available therapies. The S-ICD System does not provide long-term bradycardia pacing, cardiac resynchronization therapy (CRT), or antitachycardia pacing (ATP).

Sterilization and Storage

- If package is damaged. The blister trays and contents are sterilized with
 ethylene oxide gas before final packaging. When the pulse generator and/
 or subcutaneous electrode is received, it is sterile provided the container is
 intact. If the packaging is wet, punctured, opened, or otherwise damaged,
 return the pulse generator and/or subcutaneous electrode to Boston
 Scientific.
- Use by date. Implant the pulse generator and/or subcutaneous electrode before or on the USE BY date on the package label because this date reflects a validated shelf life. For example, if the date is January 1, do not implant on or after January 2.
- Storage temperature. The recommended storage temperature range is -18°C to +55°C (0°F to +131°F).
- 2. Kanal E, et al., American Journal of Roentgenology 188:1447-74, 2007

Implantation

- Creating the subcutaneous tunnel. Use the electrode insertion tool to create the subcutaneous tunnel when implanting and positioning the subcutaneous electrode. Avoid tunneling close to any other subcutaneously implanted medical devices or components, for example, an implantable insulin pump, drug pump, or ventricular assist device.
- Superior tunnel length. Ensure the superior tunnel is long enough to
 accommodate the portion of the electrode from the distal tip to the suture
 sleeve without buckling or curving of the defibrillation coil. Buckling or
 curvature of the defibrillation coil within the superior tunnel could lead to
 compromised sensing and/or therapy delivery. After insertion of the
 electrode into the superior tunnel, X-ray or fluoroscopy may be used to
 confirm that no buckling or curvature is observed.
- Suture location. Suture only those areas indicated in the implant instructions.
- Do not suture directly over subcutaneous electrode body. Do not suture directly over the subcutaneous electrode body, as this may cause structural damage. Use the suture sleeve to prevent subcutaneous electrode movement.
- Do not bend the subcutaneous electrode near the electrode-header interface. Insert the subcutaneous electrode connector straight into the pulse generator header port. Do not bend the subcutaneous electrode near the subcutaneous electrode-header interface. Improper insertion can cause insulation or connector damage.
- Sternal wires. When implanting the S-ICD system in a patient with sternal
 wires, ensure that there is no contact between the sternal wires and the
 distal and proximal sense electrodes (for example, by using fluoroscopy).
 Compromised sensing can occur if metal-to-metal contact occurs between
 a sense electrode and a sternal wire. If necessary, re-tunnel the electrode
 to ensure sufficient separation between the sense electrodes and the
 sternal wires.

Hospital and Medical Environments

- External defibrillation. External defibrillation or cardioversion can damage the pulse generator or subcutaneous electrode. To help prevent damage to implanted system components, consider the following:
 - Avoid placing a pad (or paddle) directly over the pulse generator or subcutaneous electrode. Position the pads (or paddles) as far from the implanted system components as possible.
 - Set energy output of external defibrillation equipment as low as clinically acceptable.
 - Following external cardioversion or defibrillation, verify pulse generator function (see the appropriate S-ICD pulse generator manual for suggested post-therapy follow-up actions).
- Cardiopulmonary resuscitation. Cardiopulmonary resuscitation (CPR) may temporarily interfere with sensing and may cause delay of therapy.

- Electrocautery and radio frequency (RF) ablation. Electrocautery and RF ablation may induce ventricular arrhythmias and/or fibrillation, and may cause inappropriate shocks and inhibition of post-shock pacing. Additionally, exercise caution when performing any other type of cardiac ablation procedure in patients with implanted devices. If electrocautery or RF ablation is medically necessary, observe the following to minimize risk to the patient and device:
 - Program the pulse generator to Therapy Off mode.
 - Have external defibrillation equipment available.
 - Avoid direct contact between the electrocautery equipment or ablation catheters and the pulse generator and subcutaneous electrode.
 - Keep the path of the electrical current as far away as possible from the pulse generator and subcutaneous electrode.
 - If RF ablation and/or electrocautery is performed on tissue near the device or subcutaneous electrode, verify pulse generator function (see the appropriate S-ICD pulse generator manual for suggested post-therapy follow-up actions).
 - For electrocautery, use a bipolar electrocautery system where possible and use short, intermittent, and irregular bursts at the lowest feasible energy levels.

When the procedure is finished, return the pulse generator to Therapy On mode. mode.

Explant and Disposal

Handling at explant. Clean and disinfect implanted components using standard biohazard handling techniques.

Potential Adverse Events

Potential adverse events related to implantation of the S-ICD System may Allergic/adverse reaction to induction testing
Allergic/adverse reaction to system or medication
Bleeding
Conductor fracture
Cyst formation
Death
Delayed therapy delivery include, but are not limited to, the following: astarala rahitica. Ne uporabite.

- Ulaldrad version, Anvandellianmayin. Güncel olmayan sürüm, kullanmayin. Delayed therapy delivery
 Discomfort or prolonged healing of incision
 Electrode deformation and/or breakage
 Electrode insulation failure
 Erosion/extrusion

- Failure to deliver therapy
- Fever
- Hematoma/seroma
- Hemothorax
- Improper electrode connection to the device
- Inability to communicate with the device
- Inability to defibrillate or pace
- Inappropriate post-shock pacing
- Inappropriate shock delivery
- Infection
- Keloid formation
- Migration or dislodgement
- Muscle/nerve stimulation
- Nerve damage
- Pneumothorax
- Post-shock/post-pace discomfort
- Premature battery depletion
- Random component failures
- Stroke
- Subcutaneous emphysema
- Surgical revision or replacement of the system
- Syncope
- Tissue redness, irritation, numbness or necrosis

For a list of potential adverse events associated with MRI scanning, refer to the MRI Technical Guide.

If any adverse events occur, invasive corrective action and/or S-ICD System modification or removal may be required.

Patients who receive an S-ICD System may develop psychological disorders that include, but are not limited to, the following:

Depression/anxiety

Fear of device malfunction

Fear of shocks

Phantom shocks

Warranty Information

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A limited warranty certificate for the subcutaneous electrode is available at www.bostonscientific.com. For a copy, contact Boston Scientific using the information on the back cover.

PRE-IMPLANT INFORMATION

Surgical Preparation

Consider the following prior to the implantation procedure:

The S-ICD System is designed to be positioned using anatomical landmarks. However, it is recommended to review a pre-implant chest x-ray in order to confirm that a patient does not have notably atypical anatomy (e.g., dextrocardia). Consider marking the intended position of the implanted system components and/or incisions prior to the procedure, utilizing anatomical landmarks or fluoroscopy as a guide. Additionally, if deviations from the implant instructions are required to accommodate for physical body size or habitus, it is recommended that a pre-implant chest x-ray has been reviewed.

Items Included in Package

Store in a clean, dry area. The following pre-sterilized items are included with the subcutaneous electrode:

Slit suture sleeve

Additionally, product literature is included.

IMPLANTATION

This section presents the information necessary for implanting the subcutaneous electrode using the subcutaneous electrode insertion tool (the "EIT"). The subcutaneous electrode can also be implanted using the Cameron Health Model 4010 Q-GUIDE EIT.

WARNING: All Boston Scientific S-ICD implantable components are designed for use with the Boston Scientific or Cameron Health S-ICD System only. Connection of any S-ICD System components to a non-compatible component will result in failure to deliver life-saving defibrillation therapy.

WARNING: Implant of the system cannot be performed in an MRI site Zone III (and higher) as defined by the American College of Radiology Guidance Document for Safe MR Practices³. Some of the accessories used with pulse generators and electrodes, including the torque wrench and electrode implant tools, are not MR Conditional and should not be brought into the MRI scanner room, the control room, or the MRI site Zone III or IV areas.

NOTE: Use of a Boston Scientific/Cameron Health electrode is required for an implanted system to be considered MR Conditional. Refer to the MRI Technical Guide for model numbers of system components needed to satisfy the Conditions of Use.

The device and subcutaneous electrode are typically implanted subcutaneously in the left thoracic region (Figure 1 Placement of the S-ICD

3. Kanal E, et al., American Journal of Roentgenology 188:1447-74, 2007

System on page 9). The EIT is used to create the subcutaneous tunnels in which the electrode is inserted.

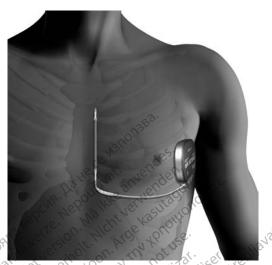
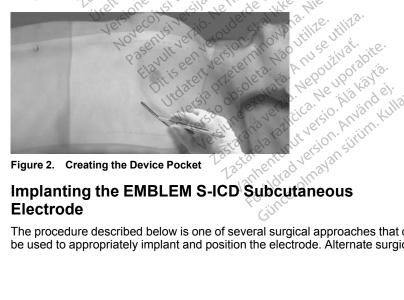


Figure 1. Placement of the S-ICD System

Creating the Device Pocket

The device is implanted in the left lateral thoracic region. To create the device pocket, make an incision such that the device can be placed in the vicinity of the left 5th and 6th intercostal spaces and near the mid-axillary line (Figure 2 Creating the Device Pocket on page 9) and secured to the fascial plane covering the serratus muscle. This can be accomplished by making an incision along the inframammary crease.



The procedure described below is one of several surgical approaches that can be used to appropriately implant and position the electrode. Alternate surgical

approaches could be considered if system placement requirements can be achieved. Regardless of the surgical approach, the defibrillation coil must be positioned parallel to the sternum, in close proximity to, or in contact with the deep fascia, below adipose tissue, approximately 1-2 cm from the sternal midline (Figure 1 Placement of the S-ICD System on page 9). In addition, good tissue contact with the electrode and pulse generator is important to optimize sensing and therapy delivery. Use standard surgical techniques to obtain good tissue contact. For example, keep the tissue moist and flushed with sterile saline, express any residual air out through the incisions prior to closing and, when closing the skin, take care not to introduce air into the subcutaneous tissue.

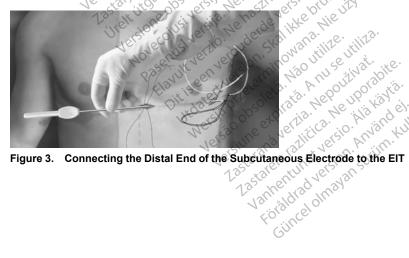
1. Make a small, 2 cm horizontal incision at the xiphoid process (xiphoid incision). The size and orientation may vary at the physician's discretion based on the patient's body habitus.

NOTE: If desired, in order to facilitate attachment of the suture sleeve to the fascia following electrode placement, two suture ties to the fascia can be made at the xiphoid incision prior to continuing.

Insert the distal tip of the EIT at the xiphoid incision and tunnel laterally until the distal tip emerges at the device pocket.

CAUTION: Use the electrode insertion tool to create the subcutaneous tunnel when implanting and positioning the subcutaneous electrode. Avoid tunneling close to any other subcutaneously implanted medical devices or components, for example, an implantable insulin pump, drug pump, or ventricular assist device.

3. Using conventional suture material, tie the anchoring hole of the subcutaneous electrode to the EIT, creating a long 15-16 cm loop (Figure 3 Connecting the Distal End of the Subcutaneous Electrode to the EIT on page 10).



- With the subcutaneous electrode attached, carefully pull the EIT back through the tunnel to the xiphoid incision until the proximal sensing electrode emerges.
- 5. A suture sleeve is permanently affixed (integrated) to the electrode body.

OPTIONAL: If the accessory slit suture sleeve is needed in addition to the integrated suture sleeve, attach it to the electrode body as follows: Using the preformed grooves, bind the suture sleeve to the subcutaneous electrode shaft using 2-0 silk or similar non-absorbable suture material, making sure not to cover the integrated suture sleeve, sensing electrodes, or defibrillation coil. After the suture sleeve is attached to the electrode body, check that it is stable by grasping the suture sleeve with fingers and trying to slide it along the subcutaneous electrode body in either direction.

NOTE: Do not anchor the subcutaneous electrode to the fascia until electrode placement is complete.

- Make a second incision approximately 14 cm superior to the xiphoid incision (superior incision). If desired, place the exposed subcutaneous electrode on the skin to make this measurement. The distance between the superior and xiphoid incisions must accommodate the portion of the subcutaneous electrode from the distal sensing electrode to the proximal sensing electrode. Pre-place one or two fascial sutures in superior incision. Use a non-absorbable suture material of appropriate size for long-term retention. Apply gentle traction to ensure adequate tissue fixation. Retain the needle on the suture for later use in passing through the electrode anchoring hole.
 Insert the distal tip of the ETT **
 - Insert the distal tip of the EIT into the xiphoid incision between the adipose and fascial plane and tunnel subcutaneously towards the superior incision, staying below adipose tissue and as close to the deep fascia as possible (Figure 4 Tunneling to Superior Incision on page 12).

CAUTION: Ensure the superior tunnel is long enough to accommodate the portion of the electrode from the distal tip to the suture sleeve without buckling or curving of the defibrillation coil. Buckling or curvature of the defibrillation coil within the superior tunnel could lead to compromised sensing and/or therapy delivery. After insertion of the electrode into the superior tunnel, X-ray or fluoroscopy may be used to confirm that no buckling or curvature is observed.



Figure 4. Tunneling to Superior Incision

- Once the distal tip of the EIT emerges from the superior incision, disconnect and retain the suture loop from the distal tip of the EIT. Secure the ends of the suture with a surgical clamp. Remove the EIT.
- 9. Using the secured suture at the superior incision, carefully pull the suture and subcutaneous electrode through the tunnel until the anchoring hole emerges. The subcutaneous electrode should be parallel to the sternal midline with the defibrillation coil beneath any adipose tissue and in close proximity to the deep fascia.
- Cut and discard the suture material.
- 11. At the xiphoid incision, anchor the subcutaneous electrode to the fascia using 2-0 silk or similar non-absorbable suture material. Use at least two of the four suture grooves when anchoring the electrode to the fascia.

The integrated suture sleeve may be anchored in a horizontal, vertical, or curved orientation.

WARNING: Use appropriate anchoring techniques as described in the implant procedure to prevent S-ICD System dislodgement and/or migration. Dislodgement and/or migration of the S-ICD System may result in an inappropriate shock or failure to deliver therapy to the patient.

CAUTION: Do not suture directly over the subcutaneous electrode body, as this may cause structural damage. Use the suture sleeve to prevent subcutaneous electrode movement.

CAUTION: Suture only those areas indicated in the implant instructions.

NOTE: Ensure that the suture is securely fastened to fascia by gently tugging on the suture prior to tying to the suture sleeve and subcutaneous electrode.

12. At the superior incision, secure the anchoring hole to the fascia using the pre-placed sutures from step 6 (Figure 5 Anchoring the Distal Tip of the Subcutaneous Electrode on page 13).

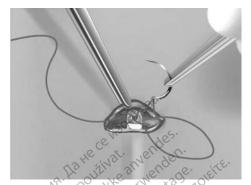


Figure 5. Anchoring the Distal Tip of the Subcutaneous Electrode

NOTE: Ensure that the suture is securely fastened to fascia by gently tugging on the suture prior to tying to the subcutaneous electrode anchoring hole.

- 13. Gently tug the subcutaneous electrode at the superior incision to ensure the anchoring hole is secured to the fascia.
- 14. To dispose of the EIT, return the used product to the original package, then dispose in a biohazard container.
- 15. To avoid air entrapment and ensure good tissue contact with the implanted subcutaneous electrode, flush all incisions with sterile saline solution and apply firm pressure along the electrode to expel any residual air out through the incisions prior to closing. Consider using fluoroscopy to check the electrode position prior to closure.

For information on connecting the subcutaneous electrode to the pulse generator, as well as information about setup of the pulse generator and defibrillation testing, refer to the appropriate S-ICD pulse generator user's manual. (Either the Boston Scientific EMBLEM S-ICD Pulse Generator User's Manual or the Cameron Health SQ-RX Model 1010 Pulse Generator User's Manual, depending on which S-ICD pulse generator is being used.) Additional information on post implant follow-up and explant of the system can also be found in the S-ICD pulse generator manual.

POST-IMPLANT

Post Implant Follow-Up Procedures

It is recommended that device functions be evaluated with periodic follow-up testing by trained personnel to enable review of device performance and associated patient health status throughout the life of the device. Refer to the appropriate pulse generator literature for more information.

WARNING: Always have external defibrillation equipment and medical personnel skilled in CPR available during implant and follow-up testing. If not terminated in a timely fashion, an induced ventricular tachyarrhythmia can result in the patient's death.

During a follow-up procedure, it is recommended that the location of the subcutaneous electrode be periodically verified by palpation and/or X-ray. When device communication with the programmer is established, the programmer automatically notifies the physician of any unusual conditions. Refer to the EMBLEM S-ICD Programmer User's Manual for more information.

Patient management and follow-up are at the discretion of the patient's physician, but are recommended one month after implant and at least every 3 months to monitor the condition of the patient and evaluate device function.

Explantation 6

NOTE: Return all explanted pulse generators and subcutaneous electrodes to Boston Scientific. Examination of explanted pulse generators and subcutaneous electrodes can provide information for continued improvement in system reliability and warranty considerations.

WARNING: Do not reuse, reprocess, or resterilize. Reuse, reprocessing, or resterilization may compromise the structural integrity of the device and/or lead to device failure which, in turn, may result in patient injury, illness, or death. Reuse, reprocessing, or resterilization may also create a risk of contamination of the device and/or cause patient infection or cross-infection, including, but not limited to, the transmission of infectious disease(s) from one patient to another. Contamination of the device may lead to injury, illness, or death of the patient.

Contact Boston Scientific when any of the following occur:

- When a product is removed from service.
- In the event of patient death (regardless of cause), along with an autopsy report, if performed.
- For other observation or complication reasons.

NOTE: Disposal of explanted pulse generators and/or subcutaneous electrodes is subject to applicable laws and regulations. For a Returned Product Kit, contact Boston Scientific using the information on the back cover.

CAUTION: Clean and disinfect implanted components using standard biohazard handling techniques.

Consider the following items when explanting and returning the pulse generator and/or subcutaneous electrode:

- Interrogate the pulse generator and print all reports.
- Deactivate the pulse generator before explantation.
- Disconnect the subcutaneous electrode from the pulse generator.
- If subcutaneous electrode is explanted, attempt to remove it intact, and return it regardless of condition. Do not remove the subcutaneous electrode with hemostats or any other clamping tool that may damage it.

- Resort to tools only if manual manipulation cannot free the subcutaneous electrode.
- Wash, but do not submerge, the pulse generator and subcutaneous electrode to remove body fluids and debris using a disinfectant solution.
 Do not allow fluids to enter the pulse generator's connector port.
- Use a Boston Scientific Returned Product Kit to properly package the pulse generator and/or subcutaneous electrode, and send it to Boston Scientific.

SPECIFICATIONS

EMBLEM S-ICD Subcutaneous Electrode Specifications

Table 1. Electrode Specifications

Component Plant VET BUILDING	Specification
Connector	SQ-1 S-ICD connector (non-standard)
Length of thomas and not tall the	45 cm
Distal Tip Size	3.84 mm
Coil Size	9 From
Electrode Shaft Size	Frio Colombia
Distal Sensing Surface Area	136 mm²
Proximal Sensing Surface Area	46 mm ²
Sensing Location	Distal electrode at tip Proximal electrode 120 mm from tip
Defibrillation Surface Area	750 mm ² 110 1111
Defibrillation Location	20 mm from tip
Insulation Material	Polycarbonate polyurethane
Electrode Material, Sensing Conductors and Connector Pins	MP35NTMala to the history will all the
Slit Suture Sleeve Material	Silicone
Integrated Suture Sleeve Material	Radiopaque White Silicone
Storage Temperature Range	-18°C to +55°C (0°F to +131°F)
Maximum outer diameter at SQ-1 S-ICD connector seals	4.0 mm.
Defibrillation coil diameter	3.0 mm

Table 1. Electrode Specifications (continued)

Lead shock impedance	25-200 Ω ^b
Maximum Lead Conductor Resistance	
From high voltage terminal ring connection to defibrillation coil	1Ω
From low voltage terminal pin to distal sensing electrode ring	50 Ω
From low voltage distal terminal sensing electrode connection to proximal sensing electrode ring	50 Ω

Definitions of Package Label Symbols

The following symbols may be used on packaging and labeling.

Table 2. Packaging Symbols

Symbol Vernotion Till not 11201	Description
STERILE EO	Sterilized using ethylene oxide
Symbol STERILE EO LEC REP LAS ALLE TO LECT	Date of manufacture
EC REP Jel : 101 : 10 . 10 lello	Authorized Representative in the European Community
2 12 Trell time out yet?	Use by the like of the like it is
SN 404 entry vert	Serial numbers
10T	Serial number Lot number
REF Utdates	Reference number
	Temperature limitation
4	To star rentrad her alar
	Temperature limitation Open here

<sup>a. MP35N is a trademark of SPS Technologies, Inc.
b. post-shock pacing uses the same vector as shocking</sup>

Table 2. Packaging Symbols (continued)

Symbol	Description
Signatura Constitution of the state of the s	Consult instructions for use on this website: www.bostonscientific-elabeling. com
STERRIZE	Do not resterilize
(2) Martonage	Do not reuse
(S) The results of th	Do not use if package is damaged
We de of our ministration of the state of th	Manufacturer
Wind State of the	MR Conditional
SQ-101 ion to passive	SQ-1 S-ICD connector (non-standard)
Aus Version Control of the Control o	CE mark of conformity with the identification of the notified body authorizing use of the mark
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